

gtagaggcaat tatcccagtc tttaaaactg gatataatgg agattcacc tgacgaaatcc 5100
 ttggccgatt atgggttga ttccattacc ggtgttagt ttattcaaca gcttaatgac 5160
 acggctcac tgactttaaa gacgggtgtt ttgtttgatc acagctcggt aaacgcactg 5220
 acggccatc tggatcttga ctatggatg gatataatggc agtggtagc aacggcacca 5280
 gggttggatg atcatccaca gagggtcgta agttaggtgt tgccctgaaag gtcggcaggca 5340
 agcacacaag ccaaggccctt gccttcagtc ccccttcgt tatcgatgg a gtcacccgtt 5400
 caacaggagt cgatagcgtt tattggatg agcggacggt ttggggcggtc agaaaacctg 5460
 gaaaggcttt ggcaaacagggt ggacagggt gtggatgttgg tcgaaaccgc gtcacgttgg 5520
 gggccacaag cggagactta ctacggcagt ttctcaagg atatggatca atttgatcct 5580
 ctcttttta atctctccgg cctggaaatgg actggagaat gcgggttata g atctggatgg 5640
 ctggagggaaat cctggaaatgg actggagaat gcgggttata tgggtgatgg catagaaggc 5700
 aaggcggttg gtatttatgc cgggttgcgtg tccgggtact acgcacaact gttggcgac 5760
 caaccccccgc cccaggctt ttggggcaat gccaggttca ttattcccgcc cggattggcc 5820
 tattatttaa atcttcaggg cccgtctacc gcgggtggata ctggctgctc aagtctctg 5880
 gttggcggtgc atttggcctg ccaggcccta caccctggatg aaatggagat ggccttggca 5940
 ggagggtgtgt ctctttatcc aaccccccattt atttgtatgg tctttgcgtg gtgcagatat 6000

FIG. 22K (cont'd)

ancaatttat nacatccncg ggaaaaanacg aacggtcac aatntaggcag gcatgtcgcc 60 SEQID NO:30
 caacggttat ttttttaaat gaggtaacca aaaaagngt tttgnagtg aaatggttt 120
 gncggangtt ggccttattt aanaaggg a gaggcgctgg ntttggttac ttgaaaccca 99tttatttc 180
 ctaacagtgc aancggtaact gtcgtgatgt tgggtcaaca aatcatcctg gtcgtatgtc 240
 gctcgatgt atcggtgatt gatcatgccc gcaaccaagg cccatgcgaa cgtttagcg 300
 atcttgcgac atcggtgatt tggcatgtatg aaggcatcg aatggatattt 360
 tggataaaga gtagccatga tggatataaa actctttaaa aatggatattt 420
 caattatccc agtctttaaa tggatccat taccgggtgt aatggatattt 480
 gattatggtg acactgattt kraagackkt gtgtttgttt gatcacagct 540
 tatctgttat ctgactatgg ctgactatgg tgatgtatcc 540
 gtgtatcatc cacagagtgt cgtcagtcatc 540
 caagccaaagc ctttgccctc agtccccctc 540
 gagtcgatag cgattatgg tatgagcgga 540
 ttttggcaac agttggcaca 540
 caaggaggaa cttaactgg 540
 tttaatctt ccgggtgtggaa 540
 gaatccttggaa atgcactggaa 540
 tttggatattt atgcccgggtt 540
 ccggcccggtt cttttgggg 540
 ttaatcttcc agggccctgc 540
 ttggcattgg cctggccaggc 540
 gtgtctttt atccaaccc 540
 ttccgggg cgttgcaca 540
 ggttggggggk taaaacgctt 540
 tattcacggaa gtgtatgtt 540
 agggcaccc agtggcmcaa 540
 tgdgtttaac cttkagcaha 540

FIG. 22L

the first time in the history of the world, the *whole* of the human race, in all its parts, has been brought together in one common cause, and that cause is the cause of the *whole* of the human race.

FIG. 22C (cont'd)

ttgacccca	agtgcacgt	tcccttgct	ctkgwmaas	tkkaawtway	ysgaaaaygt	3420
wcagattca	tgtggtttg	gattckaaat	tctttagtca	cagaccasaa	gtctccacgc	3480
tcagccgtt	aatgatatac	aacatctcg	cattgatcta	ttggacgctc	aagggaaaagt	3540
atgtgtgca	atgcgagggt	tctgtctcg	ggttttggcc	aaacaatggt	taattcacta	3600
scagaagaac	cgtttacagg	tttgaataac	cagaaggcac	cnttacttt	tccaatccca	3660
ggatggcggt	tncggccagac	tcttatccaa	gtggccaaat	aaccctacct	taawtgatgc	3720
cgggtccatc	cttgggggtgg	ttgtacgnat	ttgaaaatatg	gacttaatgt	agaaaaataga	3780
aggatgtaga	ggtttatgga	ccttacactc	ccaaaccact	tggatttaca	ggatcgctac	3840
ttgtgatatt	tgcactgca	gtatttgaaa	ttgtaaaang	acgtaatgtat	agataaattcc	3900
gtacaaccag	tactgattca	gttggtagt	ccttaatgtat	gagaacaagg	ggtatttacc	3960
aggtttatgg	cattactaaa	ggtggtcgc	tcagaaaaac	ccaaaatgtat	tacacaattta	4020
attcaagtac	aatagtcgg	caaacctcg	aaaatttact	acggatttac	actggaaataa	4080
gtcatgat	aacacatgca	gaaattcggt	atcaactgg	atcaacgtgt	atgtttgttt	4140
tggkaascag	tacccaaatc	tacaaaaacy	ttactcaact	ccctggaaat	ctaaacagwgt	4200
ttatytctwt	mccccgggka	ccgggtggaaat	tagcgtcaca	gtttgtcaaa	gcgwtagcag	4260
tgagttccac	aaaatcggt	ttaatcttkg	tagkcsktc	accactcmat	grtgaaaaaga	4320
aatcttawtt	aactagaact	ggrratccgtt	ggggggaccat	tattaawtmc	tatcaraaacr	4380
gatgttaagg	aacanggatc	aagttaaagg	wttgwttaaa	raaattkttc	ascawtmcgg	4440
tcaattgaaaw	ggkgkttt	attgtgcagg	tattgtcaac	gacaatttta	ttctcaaaaa	4500
gtcctcgaca	gaataacaaag	aggatattgtt	gtntaaaggta	tcnngtnctg	tcaatttaga	4560
ccaggcana	canagnatag	agatggattt	tcttatnnta	ntaaaaaacgt	tatgtcgagt	4620
attcggann	acagnacagg	gtnttagata	atngtccaaa	tacttttcc	aggtgttggg	4680
taaangggat	tggaaanccaa					4700

FIG. 22C (cont'd)

gcnctnccg cggggggc cgtctaga aaatcgatt atccaaacggc aataaaatt atggatgagt ttgcacgcta 60 SEQID NO:31
 tcgttaatgt ctggtaatc gcaaaaggcg ctatggttt acaactatcg aataatttgcg ttaattggcc 120
 gtactggaga gaaggaggta tgaggattga ggaaaattt gaaaataaa tgcaagagaaa 180
 taccggatg tccggccctgg agacatcaca aggtattgaa gtattacaaa gaggcttggca 240
 gtgtcgtac acgcaattgt tggttaatgtt cggagagatg aaggaaatgg agaggctttt 360
 gacaaggag gtttcgagg agattccctgt ggtatccgcg gatactgtca gcgagaataaa 420
 aacctcgact attgagaattttcagccgat ttccatcgaa tgtagataca ttaccattca ttgagggttca 480
 ggcatacaat atggaaacaaa aaacccttga ttactttaaaa aatgtatttgc caccacaaac 540
 acaaattccc gagaaaaataa tttatgttca tgaaacattt gataaatacg gaggatgttcc 600
 atgttggtg atgaaaaatgaa ccaatcaattt ggaaaaaagtta ttgtggaaaat tatctaaaac 660
 cctattttt gaatatcaaa ccattcgcga actggcgat tatttccttga aatttcatgaa 720
 tgaaaagtta agggagttt ttcaagataga tagcaaaactt tctatgtttaa ataatcacgg 780
 agaggattgaa gttcaaaaaa aaggggatgaa accatcggtt ggagacagat ataagtcaac 840
 tggatggcgat gcctatctcg gtttatctcg cctgtgtcag cgttgcattca tcaacaaaaa 900
 aatgttaac aatggttccm atantcatca gccagtaatgg ggatattggc gawtattggg 960
 tcgtagkggg tcgttatcc mcaaggcctga gaaaataatngg agggaaataact 1020
 ttgtgtcaaa ngcaaggga ctggatttan cngaaatantt ccaaaanggg ccgttggggaa 1080
 ttggsaagac tattwyacms mtnnngatcc stattcagcc mgtggggaca tcgcagtaaa 1140
 tngggkgtt ttattcggtt atggttataa gttcgatcc ttatttttta atatcccc 1200
 tagkgrggkg gaggctyrccts atcctcaggaa aykwttattt yctaggrgtcc gctkkggctg 1260
 cattggaga ccctggawat tgccgggnat tatttgcaaa tggtgttcatc aaggactaaa 1320
 tcattcattt cgtcggraga ttttgcgtt tattgtggatc tratgttttca aaaaatcag 1380
 ttgtttgtttt ttgaaacagaa wttacgtgtt caccctat cctcnggttgc ggaggatgtc 1440
 cagtattgtt amccsgggtt cttagtgtt aratctacac nggccaaac atgacagtgg 1500
 atmccatgtt ktctarttcg ttaacgacgc twccacctag atgkccaggaa tttaaaactg 1560
 ggkcgaaact gaccygggta ttgkcgkkgg agtttaawattt accatttacc ccmataaataa 1620
 tyaggcsctg agtccacgcyt aaatttattt tacttagtggt sgttgccaaa rtttgggtga 1680

FIG. 22M (cont'd)

3420
aaaaattact attgttgg gaatttaaga caagtttakc rrcgatgtg acyykraakc
cwrkgkkggw ttygmamrwv ckkwaksigt dgtgcaacsg ratwtkragg ttgcccgtt 3480
attaraggm rtrgaaaggta ctyaattccca tmcagtgcaca aagcaaatgg atcttggat 3540
agaaaaatg tggtcgtccct ttctctgaaa acccccamccg ctgcaanct gtcataacc aaaaatgg 3600
tcgtagat aatggcttaca ggracttta ttgataaacag stgsygtgtgr aggactgggt ttgttcttg 3660
cagatttt ttcacaagaca taaaattat atctgataat gttggcgc tctgatcttg 3720
ataaagagaa agswwtcgss ratwcrgrmt ykgkwwmaat caggtagtgc agtggtttat 3780
gtttagacgg atatctggc tgaaaaagaat ctccaaattgg aattggatat tgcccaaaaa 3840
tatctggcc ctattcagg tgcattcat gcccggcca tcattgatca gaagacaatt 3900
tttgaaaaa gtcctgaaaaa cttcaagca gtattagccc ntaaaattca ggttacatgg 3960
attctggata acgtattgtc aggcaatca ctggatttt tatgttactt ttctcaaggc 4020
tcggctcat taggtatgc aggtatcatgt gattatgca tggttaatcg attttgatgg 4080
gccccatgcac agttagaaaa tactyggta tctgaargaa aamscaaggg raagacmctg 4140
kttwttcatt ggccccctg gaatgggat tgaatggact ggaatggactt ggaatggagaa 4260
cgtgaaamca ragttctwty ttaagtccaa gcgggcaasg tctattggac ataaaggaaag 4320
gttgtgaggatttgaacac attrctggc caggattat ytcagtgtcy tawattggst 4200
ggkaggaaaaa acngtacw aacaattttt tgggtctcac acaaagatgt ttctnacctc 4380
acaaggtagt caagggcagg magtrawgaa cwwasrrswk kmykkrrass 4440
gaggctgagat aagaagactt aagtgttggaa gaatgttata ttgtggactt aaaaactctg 4500
attacagagc aacttaaaat acccatcagg tcatactggat gttagagatg aaaaactctg 4560
ttttggttt gattcggtc gtttagcaaa ctttcccgt gtttaagta ttcmctatca 4620
ttycaawwt acggcrtstck tattttcgat atatcctacc atagagcty taarccgtta 4680
tttttaaaa gaacmcmctg cgstttagga ggggtttat cagcagaaaa aaacatytw 4800
tagtaacaat acvctgtccg ntatagtcy tcatgtcaaa gaaaaggccgw caactgatct 4860
aatatcatcc arngcctt ncctttat gcagatccat tgccccctca ggstatgtg 4920
agtattgtg agccatatgc cattattgtg atgagtggtc gtttccaga agcgcgtacg 4980
gnttaaagca atgtggagaa ttatccgaa agttaaaaatg sytgtgcagg agattccctat 5040

FIG. 22M (cont'd)

agagcgctt anattggcat gaatattatg aacacccatc gcatatggatgtt ygaanaandb 5100
 taatagtaaa tggagyygcct gcattcctgg tattaaagaa ttcgatccac aatttttcga 5160
 aattttctcca agagaggcaa aaaarctggg ccctttccaa cggcwttat cacaggaatc 5220
 mtsgaatgca ttggwaats ctgcttatgk wwwmywacrc wkgmtmwtw aracratggg 5280
 atayktkkat tggtrttgaw smaggktwt atmmrrrymw gmtcaatkmr gwygacsgca 5340
 cacwttwawc catmakrmta tttrgcatc ccmgtytgscc agtwytywt arakyttaat 5400
 ggsctmwrsa tggcwtwaa wrccgwtgty tcctccgsyw tggyygcrmt tcaccamgt 5460
 ksctsysaggtt tackwcarca agcaatkyga wrqscckawk gwccscggcag cwwytrmw 5520
 mwyacrssk sawswtkaws tggscwtgay ssawgssrgy mtgakmystsac mwgawgssyat 5580
 amygawakac ckarnrtcam csyggcaaks gcryagtgytggakagsmw gytgwtgcar 5640
 tcgtaytgtma acrwmntctk sggktttcc aaaagggtt mmaaat 5686

FIG. 22M (cont'd)

SEQID NO:32
gngatgagat tcatggaaat acttaatttg gtcgaanagg ccattacntc tatgatttt 60
ggtgaattta taagccaaatt aaccngtgat tttagtttggat atatgaaaaga accccgttta 120
tttgactata ngtatattaa tactttatcg aatatgatcg aagaatgaaact cggaaagctgtt 180
gaggatagt tatgttagaa gtttattaaata gatactgcca tgatacgta ttcggtgcag 240
tggtattggc cntagaagaa aaagggtttt ttgaccctt tacaaggaaat agataaccta 300
catttgaaaa aataaaaaacca gaaattaaatcg ctaataatgg ccatcttcaa gttagccttac 360
gcatgttgc gtcgtttca tggatatcat gtgatgataa agggatgttga ctaacagatg 420
cagcggacga aagaaataaa atatcttagt attttataga gctttttat ttctctatga 480
gtcgctatt agaaaaatcg gaaaggcatg gattaaaaaa atggatagat caatccggag 540
ataactgggg tatttcaaac cctgtttaaa ccgattttt ggtatgggtt ttaattttc 600
ccttattact agaaactgaaag gaaaatggtt attttgc gttaaaaaaat gkwaatagt 660
taaataaaaa attattttta ggnntgatatac gaaacatcg nttcgcaawg aaattttac 720
actatttaa acaaaagaaac tggctccaaag aagaattraaag agacgttta cttcacaaaa 780
ntctggtcaa tttnaycact caacgaattt ttattaccgc aatccatgc ttcttataaag 840
ccatgttta acggaaattaa tggttggtaa tgcttaggtt atttttaaaaa 900
aggattgca tggagaggagg agccatgttg accgaaacctt aatgttatt ggtatgtt 960
ttcaacatca aaaaatcttca aaggatctt gctgatatcg aagcgttatgtt cattcagtttata 1020
mttktacga tsraywscgg aaatrkrts crratatggg ttgtgggtat gggactctac 1080
taaaaaatatt ttacaatatt atcaaggaaa aatctgcacg aggaaacgtg ttgaatctact 1140
atcccggtt acttattggt attgattata atgaaggccgc ttgtcaggaa actaacaata 1200
cactggcagg gatatttgcata agacactatg ttttaaaaagg cgtatattggt gatccctgaaag 1260
gaatgataag tgatctatcg gatttagta taaaagatcc tgagaatata ttgatgtgc 1320
gttcattct ggatcatgt cgtccctata ttgcacccac agaggtgtatg aatattggaaag 1380
cacgtcaaa gatatttgcata cagggcgtgt atgttgattc agaaggtaa gcaatatcg 1440
ctgtggttat gatacaaaaat gtttggaaac attttaaacg ctggtcttgtt gtaaaggacga 1500
aacatggctt gcttattata gaagtacatt ctcttaaccc tgaggttgtc aaccaatatt 1560
tggatgaaag tggaaagtttg cattttgatg cctatcatgg tttttcccttcaatatttag 1620
tatcggctga ggatttctca atatgtgctg cagaaggctgg tttttttctcaatatttag 1680

FIG. 22N

FIG. 22N (cont'd)

FIG. 22N (cont'd)

FIG. 220

ccctcaanaa aaaaaaaatt tnttccaaa aaaaaaaggg gcccctaaa ntccccatta 1740
 agggaaattt ttaaaatttt taatttcccg ggnaaaaattt tttnnttaaa ttccggaaatt 1800
 aaggccnaan tggaaattaaat tggnaaaatt tccannttgg gttttaaa aggggaaaaa 1860
 ncccannaat ttgggtttcc ttaaaaanaa aaaaaagggg ggnngccccc cggtgggttc 1920
 nttnntggg gnaaaaattt aaaaattaa tttn 1954

FIG. 220 (cont'd)

anccggaaaa naccnnaaagg gnngccggcc cntgtccctnc gatgtgcatna taaaannc 60
 agtnataaagn ngnnacaat antcatggcc cgcgcccncc gnaagnnaacc tnatgggtt 120
 naaggcttca aggccatcg tcaaggaacc tttcgccggg cttttgtgtt gcgacaggct 180
 cacgtnaaaa aagggaaataa atcatgggtc ataaaattat cacgttgcc gggcgccggg 240
 acgaatgttc tgtagcgct gttttccgt ggcgcgttgc tctgttgc tctgttgc 300
 aaatctggca cagccgaaatt ggcggaggct gttttgtctg aaaccgaca cacagcaact 360
 gaataccaga aagaaataca ctttacctt ctgacatcg aagggcagaa atttgcgtt 420
 gaacacctgg tcaatacgcg tttggtag cagaatatt ggcgttgc gacgcttggc 480
 gttgagatgg atacctctgc tgccaaaaag gcaatcgacg agctgsrcym scrmaktygk 540
 gmtmcgcgkwm cctwmrars ttttcsaaw rragkktywt tmawmaagsm cscygskrky 600
 gswwwwtgwr ctawccacgm arcssmwty gaaamaccks rkcyggntkw crawingwa 660
 cmrsmlycasc cttggwamn armwsmtna syywgckcwg aamaak9twa ccstcr9gk 720
 cgmtwgkjc aawkttwmac cyrsrwwrr ymcmaamatt garrcsttgm ycgraacs 780
 gmtgaaaaan ncgctghntg mnaatgtrvg gcgtntggat gtchcaaaagc aaatggcasc 840
 agacaangaa agcgatggat gaactmning cttccctttag tccgccccggc caktcatgt 900
 ggaatgtttc cccsgggtgg tggtagtctgg caccagtggcc gtcgataagt antgcnaant 960
 tngantaant tnattnatca ttngncggg ntccttncc gngcgttccn gccttgttta 1020
 cggggggcgcc cgttcttcc ttaatgttt tatttaaaat accctctgaa ttccctcggtt taaggcggtt 1080
 ccgttcttct tcgtcataac ctgttttggc ctctgtcggtt ttatggataa aaaaaggaa 1140
 acgacagggtg ctgaaaggca acaatggaa gtttccgtt tcaacaaaa ccaatggcta gcagaggtta 1200
 cgtggaaatga atgagaattc gggccggcat aatacgactc actataggga tcatattat ggtgttattta 1260
 aaggggagtgc acgacagggtg aatacgactt ggtggcaaaa ccaatggcta tagtgtgcct aatccggata 1320
 agcaacaggcg atgagaattc gggccggcat tggctatgtt ggggttgc aatagctcct catcaagtca 1380
 gttatgtaga aaggggagtgc catcaatcat gggggggctca aatagctcctt gtttagggc accaatagaa cccaaatggc 1440
 tcagcaaaagc cgtgtttat gggggggctca agcgcatggt gggggggctca aatttaatgtt gtttagggc aatccaaataa 1500
 gccaggattta tcagcaaaagc aatccaaataa gtttagggc aatccaaataa gggggggctca gaaaagtggca 1560
 tcaaaaaaac tcggatggta gcaaaaggatt gtttagggc aatccaaataa tagggaaactg tgaatctgca 1620
 gtttagggat tggctcggtt gtttagggc aatccaaataa gtttagggc aatccaaataa gggggggctca 1680
 tcggatggat tggctcggtt gtttagggc aatccaaataa tagggaaactg aatccaaataa gggggggctca 1740

ctggcgatt ggcaggacc gctgattgtat gaaaaaacag tgccgaggat tgccgggtgtc 1800
 ttttcatttg gggcagggtt ttc当地atng ntacgtgtt gattaaaggat tatattgcga 1860
 agataccgac aaataacacc aggaatcta taaaccatctaa taaaccatag gtctattatt ccatatcag 1920
 cacgaactgc tgaggcaggatcg cggcaatgt ccagtagat gctggcattt attaaaaaga 1980
 accaagaaga cagcgtggtt acccccttaa tagatattgc ttatcacatg cagtaggac 2040
 gcgaaagcaat ggtgaacggc ttggggtttta ttgtgaggatc aaccgatga attatcgaa 2100
 gaactacgaa gatatctca aacacacgt gatatggaaag agctttatcg aggtcaggat 2160
 aatcgatatg aagcacacctt tcttactatg gcggctggat ggaagatctc tcttgaggat 2220
 atccacca tttgggatataa aaaaacgaaa aactggatctt aagttaatg ccaattatgtt 2280
 gggatataaa aggggtcttt gtggattaa wtthgggrkr agwtatassw tkkyttmcca 2340
 aargrirkwtw ktccycsgrcr matkarmkka ytaccctrctc ytyyggcrgs matatttta 2400
 rgwtkktamm swtyrnmcct tcwtwcctyt ttktgrccctt agggncaaa ttatattng 2460
 tttgtngggaa atttngttt aaaaaagaat tcggttaanc ccacctncn ttaaactttc 2520
 attttgggg gnaatgggtt ttatggnaa cccattccna aaacaaaaaa nggcccttt 2580
 tttttccat tccnaaaaa accaaattttt ggcccccattt ttgggggggg gaaaaaaa 2640
 accnaanng gggaaaaattn tttttaaaaa aa 2672

FIG. 22P (cont'd)

nnnnnnttc cnattccctt gggcgaaat ttttgcggca gggncggnat aaccaaaggaa 60 SEQD NO:35
 ccctttcn ggcccttaa aaaaacccaa tttnccccnt ttaatcccc cgaataaaaag 120
 aacctttccc aaaaaaggaa naantgaan tgggggnan cttggaaat cccaaaggccaa 180
 aaaaaggccc aaymtcgccc waraacrkkc cawaatss gawaasmcyy ccagawarwa 240
 ttkwtkrrwa mwrawcyaggy wwmiscamatc rgrtgttwa tgrrsssrq wmyawwtraa 300
 aarymytcca wyktktkss grrtcaatka tgssrkwy tcaaymttgg gactcmcyym 360
 tcmmmwttt gaaaaccmyw attatakktr taagsgggc aaataatcaa tggggat 420
 ggttaamcgg ataaaaaaa gcctcaataa atttnctgc caacaactaa gacagctcta 480
 caataaacat aaaaagcaata atgagtcctt gtgattattt cccatgaaaaaa aaacaatggc 540
 attttaatag atagatctca tactgaatcg aatattgcca ttataggat atcagggtgt 600
 ttccggatg caaaaaatgt taatgaattt tggaaaaattt taaaaaatgc tcgtcatagt 660
 gtaaagaaa ttcccttaa ccggcttgg gatattgata attacttga tactcttcg 720
 caaacatg cacaggaata tggtaaaca ggaggcattt tagaaaaatcgatctt 780
 gatccgctgt tttttaat ttctccgggtt gaaggcagggc ttatggatcc aactgaacgaa 840
 ttttccttc aggaatccgt gaaaggattt ganangatgc tggttatgtat gcatcaaaact 900
 ntaagtggaa aacgntntgg ggggtatttgc cctgtgcaaa gggagactac catggcattta 960
 ttcaacaagca gggataaaact cgtatcatga ccactgactc tatggctcctt ggcagggtttg 1020
 ctattttttaat gattttgnat tagggcctgc agttcacgtt gatancnggc ttgttcatcn 1080
 gtctttggca gcaatttgctt acgcatgtga taggccttattt cttagaaat gtgtatgtttgc 1140
 cattgcggaa ggtggaaata tcaactcaac tcccagcctt ttgatcagt caagtcaact 1200
 tggtttggatc gcggttattt gccgatgttata tgctttsdat caacgtgcaaa acggaaacgggt 1260
 attagggag gcggttattt cgattttttt aaaaaccctta caacaaggcga ttgacgatgg 1320
 tggatcaggatc tacggattaa tttaagggttgg gggatgttggaa aaccaatggaa 1380
 tmttactgtt ccttagtggta agtcacaat tcakttggaa acggatgttt ataaaaaaatt 1440
 tatgatwaat cctgaacata ttackatgtt tsmagcccat ggaactggga ctaaaactasg 1500
 agatccatt gaggytcagg cattamcaga agcttttcaas aaataatcttggaa aaaaacacgk 1560
 gttttgtgca ctagngttt ttraaaarwa aatattggac atacnntttt cccgctgtcg 1620
 graktcckcta gatgttaatm aagggttttgg ttgtccattt cwcancatty actmargwttc 1680

FIG. 22Q

yyytcrtart twwtaattyw maarstatna mttwttcaww attctatayg tnaawwaccc 1740
 ywattttkwy ktaaaamcag cycatwwttw wysssskgtm attwwnycc ncttwtrw 1800
 wmccttmyt gcgrrcsgtt ttttcgtkk kgtttcrwc akagaatctm mmsycccttt 1860
 ytygcmmma ammrnntaa acmmntwrc tttyttrgr kggsgycccc cncccnnggg 1920
 gaancccca antgggtccc cnntttggg ggggggnt tngmnaangn aaaaattttt 1980
 ttcatgccc nnanaaaaagg tccttccgca accttttta aaaaataaanc ccntcccnna 2040
 aaaaatttggg natttgggan tgggaattaa aaaggccccct tttttacccc cccgngttta 2100
 atttaatc ccccaatc cccctttt tggttccggg cc 2132

FIG. 22Q (cont'd)

nnaccaattt tccgaaaccc aagnccattt gaaaagggtt tttggggccc ggggttggaaa 60 SEQID NO:36
 aaaaaaangg ggttttttggg cccccccccc nnagnaaanta aaaatgggtt aagaacncgc 120
 ccccccaactt tggaaaacctt tccccnaaaa aaaaataaaa aggcnnnttggg atttttaac 180
 naaaatnnncg ggggntggc cnttaaana acccccnnt ttnaaaaaaa tgcgarrggk 240
 gggycctccwr rnaytyyaaw awgramsgsk tawytmccwa ktgrgggwn ttwtatcawt 300
 aagggnssgg ggktytawkw ttawraarr ggragctta graawawaaw arwcmgtkgk 360
 kttaaraga ratkwwaar rraactggrw traaktwwww rwrttatwat anaaatrkkw 420
 aakggwrtta taggggaaa aaaatttaaa ggataaaatga argaaaccca tcwccattta 480
 ttccaaaga sgaccaaaga aatgatagaat gttgttaaat ttatggrtgc gtaaaaaagaa 540
 atttccaa awtttaawt yctttgggtt aaaggattaa acmcttgrtt ggaaggcaatt 600
 atatggtaaa gaacmtccag ctgttattag ttgcccawgc taccttttgc tatcctttg ccaaagaggc 660
 gtatattgggtt ggataactgtt aagttatgtt acggtatgtt acggtatgtt tytcaaccct agrcaagagg 720
 gaatwaatcc agatagtgtt aagttatgtt aaaaagctta tgaatcccttgc ttggacaatc 780
 tttttccaa aactatgacm cctgtatgaag ctatTAAGT aatggaaagag gaggtatcat 840
 gaaaaattta attaaattga ttatggaaa agtttttggaa aataaactat caaaatcaga 900
 agccctgtcg ttgatTTG gattggaggc gagcaataact actatcccttccatccat 960
 acatgaaaaac acgtcaagg tttttgaaaaaaa aaaaattcagt tcaacttttcttgc ttgttagaga 1020
 attttcttcccg gggatagatg ctaacccttaaa aaaaagggtt aatggctggg gagaattttt cagggcaatn 1140
 tgaaatgggtt tatgtcgag caacaaaggc aatggctggg ttatctcccttgc taacataacctt 1080
 ttaaaaaaat tgagtggcaa tatccagctt ttgttcatgtt agagtcgata acagttcata 1200
 ttcggtttttaaagatcca aatacccttggt tggatacaag tgaggagaaa ttttatgtct 1260
 atcaaaattta cacaatttca aataatcaag aaaaatgttcaaaacanang gatattgttc acaacgggg 1320
 tgtaatagat tatgatcata aaaaatgttcaaaatgttcaaaacanang gatattgttc acaacgggg 1320
 aaggcatatc agtgaatatt ttctagaccc taaaagggtt aatggatatttttcttactaca 1380
 cgataaaagt aatggccctt attatcgag tattgaatgg ttacatatttttcttactaca 1380
 agaaggcgctt ataaaaattt cgtttgtatca cgtatcaggat ttttgcatttttcttactaca 1440
 cattgggtttt acatcccgat atactggagt tggctttaca atcctgttagc ttcttatgcc 1620
 ttgatatggc agataactgga atctggattt ttggggggag ttgcagccca gtgagggttgc 1680
 gatgttttta tc当地atncat gtctcggtgtt gtcaggagc ctc当地atggat gggktttggg 1740

ttaccggctt aacarsytc catggaaagg tagggnttaw atagsrcan tattggccy 1800
 tkggtgrtgg aatrawrgtw atkcskgggg wccwgstamw waggttggg ttytcaaaac 1860
 cawawraamm skgtttyttg rrkwwtttt tssmmmmgc scnaaatng aacccccnn 1920
 ngingtaaanc cccnngaaat tnnnttttt tttttnccc gnncccaan cnagaaang 1980
 aaccttncg ngttttggg caattaaat taattaggcc aaccccccnn ttaatnggaa 2040
 gggggncat ntggggngt ttttttngga aaaaggaaagg gnaaattggg gnaaaaagg 2100
 cccccc当地 ntngggttt aaaaaggggg aaaaaaaatn aaccgtttaa aaaaattnnnc 2160
 ccccaant

FIG. 22R (cont'd)

SEQID NO:37
ggcaccggatgg aacgttatgg catcgattca ttgtatgtga ttcatggatgg ttcatggatgg aatataaacc gatagacggcg 120
ggcgctattt ttgatgcgt gcctaaaaaca ctgttatttg aatataaacc gatagacggcg 180
gtcggtgtt acttgggtt gaggaccggc caggcatgtt ggggtggac ggggtttaacg 240
gcaacgggtc aagctaaag aggggtgtc atctcctta cctcatcgg ggggtttgaa 300
cctgtgacac cggacagaa aggggtcat cttatacaga aagacatcaa gtggccgagaa 360
caccgatgtg aatagttgg atgcgtatgg gggaaaacttg aaggcaggaa aagttgtat ttcatggatgg aatataaacc gatagacggcg 420
cccgatgacc cttttttta acctatggc ttccatgttgg aatggatgtt aatataaacc gatagacggcg 480
caaggaaaaaa gttacagtaa atggggcggtt agacgggtt ttgtttaggg gatgtgttgg aatataaacc gatagacggcg 540
ctcttttttta acctatggc ttccatgttgg aatggatgtt atgcgtatgg ggggggtt gatgtgttgg aatataaacc gatagacggcg 600
ttacagatgt gtttttttttta acctatggc ttccatgttgg aatggatgtt ggggggtt gatgtgttgg aatataaacc gatagacggcg 660
agtttaacaa ggatcsagct agctntttt tgggggttta gtttttttttta acctatggc ttccatgttgg aatggatgtt ggggggtt gatgtgttgg aatataaacc gatagacggcg 720
gaataacaatc rgccwmgwtc tnagcancsg ttgggtttttk atacttccctt ctttttttttta acctatggc ttccatgttgg aatggatgtt ggggggtt gatgtgttgg aatataaacc gatagacggcg 780
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 840
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 900
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 960
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1020
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1080
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1140
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1200
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1260
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1320
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1380
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1440
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1500
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1560
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1620
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1680
tttacaaaggc catgaaggcct aatctttatt tggggcgtt ccaagtcntg ggggggtt gatgtgttgg aatataaacc gatagacggcg 1740

FIG. 225

cttaggacgc gggatctt tctttttgtg cggaggagac gaatgcacat ataataatac 1800
aggagtat tccagaagtc agtcagacac gacaatcaga ggtcaggaaat aaccaggctc 1860
acccgggtggc cattctgcta tctggcata cttccgctca gttactgaaag atggccgagg 1920
cacttttact attattcgt accatagtgta ataatatggta ctcatccat tcggcagggg 1980
atgagatgac tcacttggta aatgttagct atacattaca ggttggacgt gaagctatgc 2040
aggAACccct ggggttggta gtgaattccc tgagtgata tgaatgtgaaa ctacaaaaat 2100
tttattgataa gggaaaatgtat attgaagact ttatcgggta tcaaataagg actaaaaaag 2160
aaaatctcagc ttatatttaat tcggatgaaat ttgtcaggaa agtggattaa caatggatgc 2220
gacaaaaaaa actatccagg tcaacatatg cgaaccaaac ctttgcac ttggggtaa gggagttcac 2280
actttttgtta ttgtcttataa tggatattgg attgtatgata tcaatcgact acatttacca acgtacccat 2340
aaaaccaacac tattttaaa gaggaaaaaa agcaagttag attagaggcg ctgtgatttga 2400
actttttgttaa aaaaacttaat gtcctatgaa aaaaaggcat tcattgttct ttatcaactc 2460
aattcagggg ctggtccggg gccaatccatc agacatccatc tggtaaacaat agacgatctt 2520
atgtacagggt gcttaaacaat gacgatataat taaggatct taaatcaggcg ctgcctacag 2580
ctgttgaagg tatgataccat acattaaatc gaaactgggtt catgacagaa agcttaagct 2640
cctactcaga agcatttgc aactatgcgt gtatgtgtgg tggagaagta ttggacttgg 2700
gggttgtgcata tggaaatttgc acgatttgcg cgttggagcg aggggctcaa gtattagccg 2760
tagatatggat ggcacaggcat ctggaaatatt tattcaggccg tattcgggtt gaagtgaaagt 2880
cgcgtttatc gacacaaggta ggcagggttgc tggatctca ttttgcataa ttgttgcataa 2940
cttgcgtatcca tggatgttgc tggctacat tttaaaccac acaggatttc cagaaggcat 3000
ttacaaaaat gtatggctgg taaaaccgc tttttttatgc aactcgtaaa aacttactaa atttatgttgc 3060
cttataatggg ttatggcg agcaaaaggag gggtttgc tggatctact tttaaaccat gaggaaaatttgc 3120
atttatggcc aggtacata gataatgttgc tttttttatgc aacttactaa aacttactaa 3180
tctgtacac ccgtatggacc ccgtatggacc tttttttatgc aacttactaa gatataatgc 3240
ggggcccaac tttttttatgc tttttttatgc aacttactaa gatataatgc 3300
tttttagaaaa atcaggtaaa tttttttatgc tttttttatgc aacttactaa 3360
atttccgacag gcttggaaa tcgtatggc cgttggagatc aacttactaa 3420
aaaatttagcc actgcaaaaat cagacaatgc tttttttatgc tttttttatgc 3480

FIG. 22S (cont'd)

FIG. 22S (cont'd)

the first time in the history of the world, the *whole* of the human race, in all its parts, has been brought together in one common cause.

FIG. 222S (*cont'd*)

ckgraagmsk wwmckaaws srwgctgtc gtaggggtt gctatattgc tggtagttt 7020
 gcaggattt ttcaagggtt ggttagtgtac attattat tggatcagg tgatttattt 7080
 ctaaggat ttgatcgaga ttgtcgtaa ttactgcga ttactgtc gctattgaa agcaagtggc tgtagccata 7140
 gtaaatttac atttaatcg cagtgtttc ctaaccttg cttaatgtg gaagtggata ctattatgt tgccacaggt 7200
 ttagtggtt taactgtatgg cttcaacccgtt cttcaaaactg ttagtggat tgtagtttgc tgtagtttgc 7260
 yggaaaccar rmmyygaggs wyytggktyt ksawwrkrs c gctgtmaas kirckyaaaw 7320
 gggaaaggctt tycaaagtnta actgakaayt tttcaaaanca agcagaaggcc wbtytawtt 7380
 aygcaagttwa ggggawttt aatagaccgg tgncaatk aacvccaagt tgstctsggc 7440
 tgaarggtat ggmcttaagg mcagcttttta tattagttgac tmcaagtggat taataanggt 7500
 agattatggg tttsgttgc cmagaaccgg ttttttgtc caamcccaan tatggcacc 7560
 gttaggttata gtgaaagaggc ggcacaagrgm wragttgt acggtgbctg ttadaaaatr 7620
 gatttttaaa ccagatgaag ncatacgtg agtgncttct tngatngagc ggacttttg 7680
 tgaagtnwat tagtagancc aaaaacnmca gntattgcca ataragtcat aggttgtcat atggtaggcg 7740
 ctcracggg gagaatctt tagtgcgg taaaggcagg agccacaaa gcaacttgc 7800
 atagccat aggtattcac cctacggttg ccgaaaggat tggactatgc agagagccctg 7860
 cgtatatt atagcaatag gccaaggggca gctacttgtt tagtaaggc tattttaca 7920
 aatagtacca tcagataata taktgccgta gttacgtt yamtgaatca kcagtkgtma 7980
 wakkagtcat atagcaygms gwrtkatasg kgkattcata yyrtrcawaa syaaykckgt 8040
 cgtcgagggaa yataatkctc akrrataatat wcrttcgasw cctgtysakk cccwaccacr 8100
 satacywssc aaagarttgy agtratcrag ckwtgsakws tgancqntgs matnakgttc 8160
 aacgcattgkcc ctagcctkat agcatcygac caytsaggcc caawrkgmt taaycccagt 8220
 gtwcngttns atrnrsngacs mgktaatgtt mggtgwtst wrkawgcss mtctmmaaa 8280
 mcmnsannmr acgtacaagm rtgwccacmg krkgcytrya snmattmgct atcamrcnca 8340
 yssrrggkk ggycttmawa arargggcaa aaaaaaaaaan 8380

FIG. 22S (cont'd)

Lys Leu Gly Asp Pro Ile Glu Val Glu Thr Leu Ala Glu Ser Phe Arg SEQID NO:11
 1 5
 Val Tyr Thr Asp Lys Arg His Tyr Cys Ala Leu Gly Ser Val Lys Ser
 20 25 30
 Asn Ile Gly His Leu Gly Val Gly Ala Gly Ile Ala Gly Val Thr Lys
 35 40 45
 Val Leu Leu Ser Leu Gln His Arg Met Leu Pro Pro Thr Ile His Cys
 50 55 60
 Glu Asp Val Asn Pro Gln Ile Ala Leu Glu Gly Ser Pro Phe Tyr Ile
 65 70 75 80 80
 Asn Thr Glu Leu Lys Pro Trp Gln Ser Gly Asp Gly Ile Pro Arg Arg
 85 90 95 95
 Ala Gly Val Ser Ser Phe Gly Val Ser
 100 105

FIG. 22T

Lys Leu Gly Asp Pro Ile Glu Val Glu Thr Leu Ala Glu Ser Phe Arg SEQID NO:12
 1 5 10 15
 Val Tyr Thr Asp Lys Arg His Tyr Cys Ala Leu Gly Ser Val Lys Ser
 20 25 30
 Asn Ile Gly His Leu Gly Val Gly Ile Ala Gly Val Thr Lys
 35 40 45
 Val Leu Leu Ser Leu Gln His Arg Met Leu Pro Pro Thr Ile His Cys
 50 55 60
 Glu Asp Val Asn Pro Gln Ile Ala Leu Glu Gly Ser Pro Phe Tyr Ile
 65 70 75 80 85
 Asn Thr Glu Leu Lys Pro Trp Gln Ser Gly Asp Gly Ile Pro Arg Arg
 90 95
 Ala Gly Val Ser Ser Phe Gly Val Ser Gly Thr Asn Ala His Leu Val
 100 105 110
 Leu Glu Tyr Thr His Arg Val Thr Ser Pro Leu Gln Asn Thr Ile
 115 120 125
 Leu Pro Gln Asn Gly Leu Phe Ile Val Pro Leu Ser Ala Lys Asn Asp
 130 135 140

FIG. 22U

Glu	Cys	Leu	Asn	Ala	Cys	Val	Glu	Arg	Leu	Phe	Leu	Lys	Ser		
145															
													160		
Arg	Gln	Ser	Asp	Thr	Tyr	Lys	Lys	Tyr	Ser	Leu	Ser	Asp	Thr	Ala	Pro
															175
Ile	Leu	Leu	Asp	Leu	Ala	Tyr	Thr	Leu	Gln	Val	Ser	Arg	Glu	Ala	Met
															190
Thr	Lys	Arg	Val	Ala	Phe	Val	Val	Lys	Thr	Thr	Ile	Glu	Leu	Met	Glu
															205
Lys	Leu	Asn	Ala	Phe	Ile	Glu	Lys	Gln	Asn	Thr	Ile	Lys	Ala	Ser	Asn
															220
Ile	Lys	Gly	Cys	Tyr	Tyr	Ser	Ser	Thr	Lys	Thr	Ser	Ser	Pro	Phe	Asp
															240
Asn	Glu	Ser	Thr	Asp											
															245

FIG. 22U (cont'd)

Arg Leu Gly Asp Pro Ile Glu Leu Ala Ala Leu Ser Lys Ala Phe Glu SEQID NO:14
 1 5 10 15
 Glu Gly Thr Gln Arg Lys Gln Phe Cys GLY Ile Gly Ser Val Lys Ser
 20 25 30 35
 Asn Ile GLY His Leu Asp Val Ala Ala Gly Val Val GLY Leu Ile Lys
 35 40 45
 Thr Ala Leu Ser Leu Gln His Arg Leu Leu Pro Pro Thr Ile Asn Tyr
 50 55 60 65
 Glu Ala Pro Asn Arg Glu Ile Asn Phe Glu Gln Ser Pro Phe His Val
 65 70 75 80
 Ile Asp Glu Leu Thr Glu Trp Arg Gly Gln Gly Pro Leu Arg Ala
 85 90 95
 Gly Val Ser Ser Phe Gly Ile Gly
 100

FIG. 22V

Gln Leu Gly Asp Pro Ile Glu Leu Gln Ala Leu Ala Asp Val Tyr Arg SEQID NO:16
 1 5 10 15
 Val Asp Asn Trp Arg Lys Asn Thr CYS Ala Leu Gly Ser Val Lys Ser
 20 25 30
 Asn Ile Gly His Thr Ser Ala Ala Ser Gly Val Ala Gly Ile His Lys
 35 40 45
 Val Leu Leu Ser Leu Lys His Arg Gln Leu Val Ala Ser Leu His Phe
 50 55 60
 Asn Ser Ala Asn His His Phe Asp Phe Gln Gln Ser Pro Phe Tyr Val
 65 70 75 80 80
 Asn Thr Gln Leu Arg Pro Trp Asp Gln Ala Glu Gly Leu Glu Ser
 85 90 95 95
 Arg Arg Arg Ala Ala Val Ser Ser Phe Gly Val Ser
 100 105

FIG. 22W

Protein sequence

Glu Tyr Gly Asp Pro Met Glu Leu Thr Ala Ala Ala Ala Val Phe Gly SEQID NO:18
1 5 10 15
Arg Gly Arg Asn Gln Lys Asn Arg Leu Leu Val Gly Ser Val Lys Ala
20 25 30
Asn Ile Ser His Leu Glu Ala Ala Gly Gly Ile Ser Gly Leu Ile Lys
35 40 45
Ala Val Leu Ala Met Gln His Gly Val Ile Pro Gln Gln Leu His Cys
50 55 60
Lys Glu Pro Ser Pro His Ile Pro Trp Lys Arg Leu Pro Leu Asp Leu
65 70 75 80
Val Gln Glu Gln Thr Val Trp Pro Glu Ser Glu Glu Arg Ile Ala Ala
85 90 95
Val Thr Ala Ser Asp
100

FIG. 22X

Gln Leu Gly Asp Glu Ile Glu Val Arg Ala Leu Ser Lys Val Tyr Gly SEQID NO:20
 1 5
 Asp Ser Gln Ser Thr Thr Tyr Leu Gly Ala Val Lys Ser Asn Ile Gly
 20 25
 His Ala Asn Ala Gly Ala Gly Ile Ala Gly Phe Ile Lys Thr Val Leu
 35 40
 Ser Leu Tyr His Gly Lys Ile Ala Pro Asn Ala Gly Asn Thr Glu Pro
 50 55
 Asn Ala Ala Leu Asn Leu Asp Ala Phe His Phe Ala Leu Pro Lys Thr
 65 70 75 80
 Leu Leu Thr Trp Pro Glu Cys Asp Val Arg Arg Ala Ala Ile Ser Ser
 85 90 95
 Leu Gly Phe Gly
 100

FIG. 22Y

Ala Leu Gly Asp Pro Ile Glu Phe Gly Ala Ile Lys Ala Val Tyr Gly SEQID NO:22
 1 5 10 15
 Pro Gly Arg Ser Ser Pro Leu Val Leu Gly Ala Leu Lys Ser Asn Ile
 20 25 30 35
 Gly His Leu Glu Ala Thr Ala Gly Val Ala Ala Leu Ile Lys Ala Val
 40 45
 Leu Val Leu Gln His Gly Val Ala Pro Ala Asn Leu His Cys His Lys
 50 55 60
 Leu Asn Pro Leu Leu Asp Ile Asp Gly Phe Asn Val Val Phe Pro Gln
 65 70 75 80 85
 Ser Glu Thr Pro Leu His Ser Ser Leu Gln Leu Leu Gly Gly Tyr Gln
 90 95
 Phe Val Arg Val Trp 100

FIG. 22Z

Thr Trp Xaa Ser Leu Leu Arg Trp Gly Leu Leu Gln Asn His Phe Asp SEQID NO:24
 1 5 10 15

Pro Tyr Thr Glu Lys Lys Asn Tyr Cys Ala Ser Gly Ser Val Lys Ser
 20 25 30

Asn Ile GLY His Leu Thr Ala Ala GLY Val Ser Gly Val Val Lys Val
 35 40 45

Leu Leu Ala Leu Lys His Lys Gln Leu Pro Pro Ser Cys His Leu Val
 50 55 60

Lys Ile Asn Glu His Ile Asn Leu Glu Asp Ser Pro Phe Tyr Ile Asn
 65 70 75 80

Thr Ala Leu Lys Lys Trp Glu Val Ser Glu Gly Glu Ala Arg Arg Ala
 85 90 95 95

Ala Val Ser Ser Phe Gly Ser
 100

FIG 22AA

Pro Leu Gly Asp Pro Ile Glu Met Ala Ala Leu Lys Gln Ala Phe Gly SEQID NO:24
 1 5
 Thr Gln Lys Lys Lys Tyr Cys Ala Ile Gly Ser Val Lys Ser Asn Ile
 20 25 30
 Gly His Ala Asp Thr Ala Ala Gly Val Ala Gly Leu Ile Lys Thr Val
 35 40 45
 Met Ala Leu Lys Ala Arg Gln Ile Pro Pro Ser Leu His Phe Glu Thr
 50 55 60
 Pro Asn Pro Gln Ile Asp Phe Ala Asp Ser Pro Phe Tyr Val Asn Thr
 65 70 75 80 80
 Thr Leu Lys Asp Trp Asn Thr Asn Gly Val Pro Arg Arg Ala Gly Val
 85 90 95 95
 Ser Ser Phe Gly Ile Gly
 100

FIG. 22B3

P D T E P D M G G G E D D G G G

Val Val Gly Asp Pro Ile Glu Val Val Gly Leu Thr Lys Ala Tyr Gln SEQID NO:28
 1 5 10 15

Ala His Thr Gln Glu Arg Gln Tyr Cys Gly Leu Gly Ser Val Lys Thr
 20 25 30

Asn Ile Gly His Thr Asp Ser Ala Ala Gly Ile Ala Gly Leu Lys
 35 40 45

Ile Val Met Ala Met Lys His Arg Gln Leu Pro Pro Ser Leu Asn Phe
 50 55 60

Glu Thr Pro Asn Pro Asp Leu Asp Leu Glu Asn Ser Pro Phe Phe Ile
 65 70 75 80 80

Gln Thr Lys Leu Lys Asp Trp Glu Ser Val Gly Pro Arg Arg Ala Ala
 85 90 95 95

Leu Ser Ser Phe Gly Leu Gly
 100

FIG. 22CC

Met Val Val Val Glu Glu Phe Phe Val Ser Tyr Arg Asp Ile Leu Lys SEQID NO:38
 1 5 10 15

Ala Leu Gln Asp Glu Lys Ile Ser Phe Glu Glu Ala Lys Tyr Lys Leu
 20 25 30

Ile Lys Arg Lys Asp Lys Lys Ser Lys Gln Arg Leu Asn His Asp Arg
 35 40 45

Glu Leu Asn Arg Ser Met Asn Ile Thr Pro Lys Ile Val Asn Asn Tyr
 50 55 60

Gly Leu Val Leu Leu Gly His Leu Phe Glu Glu Leu Arg Leu Ser
 65 70 75 80

Glu Trp Lys Ala Ala Asn Pro Asn Pro Asn Glu Val Ser Ile Gln Val
 85 90 95

Lys Ala Ser Ala Ile Ser Phe Thr Asp Thr Leu Cys Val Gln Gly Leu
 100 105 110

Tyr Pro Ser His Tyr Pro Phe Val Pro Gly Phe Glu Val Ser Gly Val
 115 120 125

Ile Arg Gln Val Gly Glu His Ile Thr Asp Leu His Val Gly Asp Glu
 130 135 140

FIG. 22D

Val Ile Ala Phe Thr Gly Ser Ser Met	Gly	His	Ala	Ala	Tyr	Val	
145	150	155	160				
Thr Val Pro Gln Asp Tyr Val Val Arg	Lys	Pro	Lys	Asp	Leu	Ser	Phe
165	170	175					
Glu Asp Ala Cys Ser Phe Pro Leu Ala	Phe	Ala	Thr	Val	Tyr	His	Ser
180	185	190					
Phe Ala Arg Gly Lys Leu Ser His Asn	Asp	His	Ile	Leu	Ile	Gln	Thr
195	200	205					
Ala Thr Gly Gly Cys Gly Leu Met Ala	Leu	Gln	Leu	Ala	Arg	Leu	Lys
210	215	220					
Gln Cys Val Cys Tyr Gly Thr Ser Ser	Arg	Glu	Asp	Lys	Leu	Ala	Leu
225	230	235	240				
Leu Lys Gln Trp Ala Leu Pro Tyr Val	Phe	Asn	Tyr	Lys	Thr	Cys	Asn
245	250	255					
Ile Asp Glu Glu Ile Gln Arg Val Ser	Gly	His	Arg	Gly	Val	Asp	Val
260	265	270					
Val Leu Asn Met Leu Pro Gly Glu His	Ile	Gln	Gly	Leu	Asn	Ser	
275	280	285					

FIG. 22DD (cont'd)

Leu Ala Lys Gly Gly Arg Tyr Leu Glu Leu Ser Met His Gly Leu Leu
 290 295 300
 Thr Asn Glu Pro Val Ser Leu Ser Ser Leu Arg Phe Asn Gln Ser Val
 305 310 315 320
 Gln Thr Ile Asn Leu Leu Gly Leu Leu Asn Lys Gly Asp Asp Gly Phe
 325 330 335
 Ile Gly Ser Val Leu Ala Gln Met Val Ser Trp Ile Glu Ser Gly Asp
 340 345 350
 Leu Val Ser Thr Val Ser Arg Ile Tyr Pro Leu Asp Gln Ile Gly Glu
 355 360 365
 Ala Leu Arg Tyr Val Ser Glu Gly Glu His Ile Gly Lys Val Val Val
 370 375 380
 Ser His Thr Ala Thr Glu Pro Met Asp Cys Arg Gln Arg Cys Ile Asp
 385 390 395 400
 Asn Val Leu Lys Gln Gly Gln Met Ala Ala Leu Thr Ala Thr Gly Gly
 405 410 415
 Lys Ser Arg Val Trp Gly Gly Thr Gly Val Asn Asp Lys Pro Ser Pro
 420 425 430

FIG. 22DD (cont'd)

Ala Val Gly Ile Glu Glu Arg	Leu Leu Glu Gly Ile Ala Val Ile Gly
435	440
Leu Ser Gly Gln Tyr Pro Lys	Ser Lys Thr Leu Glu Gln Phe Trp Gln
450	455
Thr Leu Ala Asp Gly Val Asp	Cys Ile Ser Glu Ile Pro Ala Asp Arg
465	470
Trp Ser Leu Glu Glu Tyr Tyr	Ser Pro Ile Pro Glu Gly Lys Thr
485	490
Tyr Cys Lys Trp Met Gly Val	Leu Asp Met Asp Cys Phe Asp Pro
500	505
Leu Phe Phe Ala Ile Ser Pro	Arg Glu Ala Glu Val Met Asp Pro Gln
515	520
Gln Arg Leu Phe Leu Glu Asn	Ala Trp Ser Cys Ile Glu Asp Ala GLY
530	535
Ile Asn Pro Lys Met Leu Ser	Arg Ser Arg Cys Gly Val Phe Val GLY
545	550
Cys Gly Ala Asn Asp Tyr Ser	Ala Leu Met Asn Ser Ser His Ser Thr
565	570
	575

FIG. 22DD (cont'd)

Ser	Leu	Glu	Leu	Met	Lys	Glu	Leu	Gly	Asn	Asn	Ser	Ser	Ile	Leu	Ser
580															
Ala	Arg	Ile	Ser	Tyr	Phe	Leu	Asn	Leu	Lys	Gly	Pro	Cys	Leu	Ala	Ile
595															
Asp	Thr	Ala	Cys	Ser	Ser	Ser	Leu	Val	Ala	Ile	Ala	Glu	Ser	Cys	Asn
610															
Ser	Leu	Val	Leu	Gly	Thr	Ser	Asp	Leu	Ala	Leu	Ala	Gly	Gly	Val	Leu
625															
Leu	Met	Pro	Gly	Pro	Ser	Leu	His	Ile	Gly	Leu	Ser	His	Gly	Glu	Met
640															
Leu	Ser	Val	Asp	Gly	Arg	Cys	Phe	Thr	Phe	Asp	Gln	Arg	Ala	Asn	Gly
655															
Phe	Val	Pro	Gly	Glu	Gly	Val	Gly	Val	Val	Leu	Leu	Lys	Arg	Met	Ser
670															
Asp	Asp	Ala	Val	Arg	Asp	Gly	Asp	Pro	Ile	Arg	Ala	Val	Ile	Arg	Gly
685															
Gly	Val	Asn	Gln	Asp	Gly	Arg	Ser	Asn	Gly	Ile	Thr	Ala	Pro	Ser	Ser
700															
715															
720															

FIG. 220D (cont'd)

FIG. 22DD (cont'd)

Glu Glu Tyr Leu Pro His Ser Thr Gly Thr Ile Glu Ser Phe Ala Ala
 865 870 875 880
 Asn His Ala Ser Thr Val Ile Ile Pro Leu Ser Ala Lys Ser His Asn
 885 890 895
 Ser Leu Tyr Thr Tyr Ala Gln Thr Leu Leu Ile Phe Leu Lys Arg Ser
 900 905 910
 Gln Val Thr Asp Ala Lys Lys Ile Thr Ile Asp His Met Glu Cys Arg
 915 920 925
 Leu Leu Asp Leu Ala Tyr Thr Leu Gln Val Gly Arg Glu Ala Met Asp
 930 935 940
 Lys Arg Ile Ser Phe Ile Val Asn Thr Lys Gln Ala Leu Val Glu Lys
 945 950 955 960
 Leu Asn Ala Phe Leu Glu Lys Glu Lys Thr Ile Thr Asp Cys Tyr His
 965 970 975
 Tyr Leu Phe Asp Ser Asp Lys Pro Ser Thr Glu Ile Phe Arg Leu Asp
 980 985 990
 Glu Asp Asp Lys Val Leu Ile Asn Ser Trp Ile Ser Gln Ser Gln Tyr
 995 1000 1005

FIG. 22DD (cont'd)

His Lys Leu Ala Glu Ala Trp Ser Gln Gly Leu Asp Ile Asp Trp Thr	
1010	1015
Leu Leu Tyr Thr His Ser Ser Thr Pro Arg Arg Ile Ser Leu Pro Thr	
1025	1030
1035	1040
Tyr Pro Phe Ala Arg Asp Arg Tyr Trp Leu Pro Glu Lys Pro Arg Tyr	
1045	1050
1055	1060
Asn Ala Ala Asn His Pro Val Ser Asn His Gln Thr Thr Gln Asn	
1065	1070
1075	1080
1085	1090
1095	1100
Met Gln Lys Thr His Gln Gln Glu Leu Glu Gln Trp Leu Leu Lys Leu	
1105	1110
1115	1120
Leu Phe Val Gln Leu Gln His Met Gly Leu Phe Gln His Arg Val Phe	
1125	1130
1135	1140
Glu Thr Ala Thr Ala Leu Arg Gln Ser Ala Gly Ile Val Asp Lys Tyr	
1145	1150
Asp Arg Trp Trp His Glu Cys Leu Ser Val Leu Gln Asp Ala Gly Tyr	

FIG. 2200 (cont'd)

Leu Glu Trp Lys Asp Asp Ser Val Ala Ala Ala Gln Ala Leu Glu Ser
 1155 1160
 1165
 Glu Ser Gln Glu Ala Trp Trp Ser Arg Trp Asn Thr Glu Tyr Lys His
 1170 1175
 1180
 Tyr Gln Asn Asp Pro Glu Lys Thr Leu Ala Ile Leu Ile Asn Asp
 1185 1190
 1195
 1200
 Cys Leu Gln Ala Leu Pro Gly Val Leu Ser Gly Glu Gln Leu Ile Thr
 1205 1210
 1215
 Asp Ile Ile Phe Pro Asn Gly Ser Met Glu Lys Met Glu Gly Leu Tyr
 1220 1225
 1230
 Lys Asn Asn Arg Ile Ala Asp Tyr Cys Asn Gln Cys Val Gly Asp Leu
 1235 1240
 1245
 1250
 Leu Val Gln Phe Ile Glu Ala Arg Leu Ser Arg Asp Ala Asn Ala Arg
 1255 1260
 1265
 Ile Arg Ile Ile Glu Ile Gly Ala Gly Thr Gly Gly Thr Thr Ala Ile
 1270
 1275
 1280
 Val Leu Pro Met Leu Gln Ala Tyr Gln Asp His Ile Asp Thr Tyr Cys
 1285 1290
 1295

FIG. 22DD (cont'd)

Tyr Thr Asp Val Ser Lys Ala Phe Leu Met His Gly Gln Glu His Tyr
 1300 1305
 Gly Glu Gln Tyr Pro Tyr Leu Ser Tyr Cys Leu Cys Asn Ile Glu Gln
 1315 1320 1325
 Asp Leu Val Ala Gln Gly Ile Ser Val Gly Asp Tyr Asp Ile Ala Ile
 1330 1335 1340
 Ala Ala Asn Val Leu His Ala Thr Arg Asn Ile His Glu Thr Val Ser
 1345 1350 1355 1360
 His Val Arg Gln Ala Leu Ala Ala Asn Gly Leu Ile Leu Asn Glu
 1365 1370 1375
 Phe Ser Gln Lys Ser Val Phe Ser Ser Val Ile Phe Gly Leu Ile Asp
 1380 1385 1390 1395
 Gly Trp Ala Leu Ser Glu Asp Thr Gly Leu Arg Ile Pro Gly Ser Pro
 1395 1400 1405
 Gly Leu Tyr Pro Lys Gln Trp Gln Ala Val Leu Glu Ala Ser Gly Phe
 1410 1415 1420
 Gly Asp Val Glu Phe Pro Leu His Asp Ala Arg Glu Leu Gly Gln Gln
 1425 1430 1435 1440

FIG. 22DD (cont'd)

Ile Ile Leu Ala Thr Asn Ala His Ala Asn Val Ala Ser Asp Leu Ala
 1445 1450 1455
 Thr Ser Val Ile Asp His Ala Pro Lys Arg Leu Pro Ser Ala Glu Val
 1460 1465 1470
 Ser Met Asp Glu Arg Val Ser His Asp Ala Met Met Lys Ala Ser Val
 1475 1480 1485
 Lys Gln Leu Leu Val Glu Gln Leu Ser Gln Ser Leu Lys Leu Asp Met
 1490 1495 1500
 Asn Glu Ile His Pro Asp Glu Ser Phe Ala Asp Tyr Gly Val Asp Ser
 1505 1510 1515 1520
 Ile Thr Gly Ala Ser Phe Ile Gln Gln Leu Asn Asp Thr Leu Thr Leu
 1525 1530 1535
 Thr Leu Lys Thr Val Cys Leu Phe Asp His Ser Ser Val Asn Arg Leu
 1540 1545 1550
 Thr Ala Tyr Leu Leu Ser Asp Tyr Gly Asp Asp Ile Ala Gln Trp Leu
 1555 1560 1565
 Ala Thr Ala Pro Ala Leu Val Asp His Pro Gln Ser Val Val Ser Gln
 1570 1575 1580

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Val Leu Pro Glu Arg Ser Pro Ala Ser Thr Gln Ala Lys Pro Leu Pro	1585	1590	1595	1600
Ser Val Pro Pro Ser Leu Ser Met Glu Ser Pro Val Gln Glu Ser	1605	1610	1615	
Ile Ala Ile Ile Gly Met Ser Gly Arg Phe Ala Ala Ser Glu Asn Leu	1620	1625	1630	
Glu Ala Phe Trp Gln Gln Leu Ala Gln Gly Val Asp Leu Val Glu Pro	1635	1640	1645	
Ala Ser Arg Trp Gly Pro Gln Ala Glu Thr Tyr Gly Ser Phe Leu	1650	1655	1660	
Lys Asp Met Asp Gln Phe Asp Pro Leu Phe Asn Leu Ser Gly Val	1665	1670	1675	1680
Glu Ala Ser Tyr Met Asp Pro Gln Gln Arg Cys Phe Leu Glu Ser	1685	1690	1695	
Trp Asn Ala Leu Glu Asn Ala Gly Tyr Val Gly Asp GLY Ile Glu GLY	1700	1705	1710	
Lys Arg Cys Gly Ile Tyr Ala Gly Cys Val Ser Gly Asp Tyr Ala Gln	1715	1720	1725	

FIG. 22 DD (cont'd)

Leu Leu Gly Asp Gln Pro Pro Pro Gln Ala Phe Trp Gly Asn Ala Ser
 1730 1735 1740
 Ser Ile Ile Pro Ala Arg Ile Ala Tyr Tyr Leu Asn Leu Gln Gly Pro
 1745 1750 1755 1760
 Ala Thr Ala Val Asp Thr Ala Cys Ser Ser Ser Leu Val Ala Val His
 1765 1770 1775
 Leu Ala Cys Gln Ala Leu His Leu Asp Glu Met Glu Met Ala Leu Ala
 1780 1785 1790
 Gly Gly Val Ser Leu Tyr Pro Thr Pro Ile Ile Val Glx Val Phe Ala
 1795 1800 1805
 Trp Cys Arg Tyr
 1810

FIG. 22DD (cont'd)